

FIG. 3

Smart Susceptor Test Results

			Curie	Heating Results	lesuits .
•	ary T	Geometry	Temp oc	275 kHz	4MHz
Material	1 y pc			0010	340 - 370°C
Co.Ba.Fe.nOnn	ferromagnetic	powder	345	D-69 - 09	
Fe-O.	forramenatic	powder	585	350°C	၁ _° 009
(44 micron)		nowder	585	470°C	not tested
(840 micron)	Terromagnene			1	4004
1 0 0 mm	ferromagnetic	powder	450	و0 ₀ 09	naisal 10U
Sir e12019	ferromagnetic	powder	450	3°88	not tested
Sre12019"*					

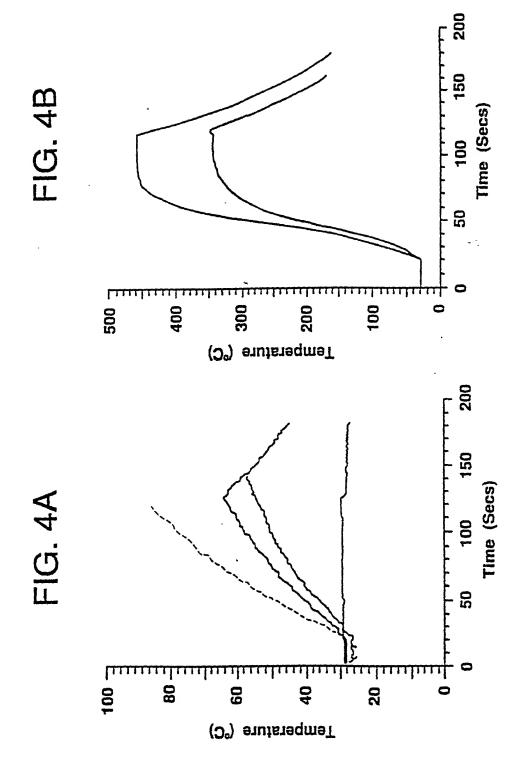


FIG. 5 Smart Susceptor Test Results for Filled Films

			Curie	Heatlı	Heating Results	S
Material	Geometry	Thickness (mils)	Tem Co	275 kHz	4 MHz	6.5 MHz
SrFe ₁₂ O ₁₉ #1	30 % filled	4.0	450			149 °C
SrFe ₁₂ 0 ₁₉ #2	PSF film 30 % filled	4.0	450			343 °C
(1-2 micron)	PSF film 30 % filled	10.0	450			371°C
(1-2 micron)	PSF film	8.0	450			3e0 °C
	PSF film 30 % filled	4.0	345		109°C	
Co. Ra. Fe. o O.c.	PSF film 30 % filled	. 8.0	345		5 55	249 °C
Co.Ba.Fe.s.O.s.		4.0	345			243-249
(<1 micron) ConBanFerron		8.0	345			288-302
(<1 micron) Co ₂ Ba ₂ Fe ₁₉ O ₂₉	PSF film 30 % filled	10.0	345			288-302 °C
(<1 micron) Fe ₂ O _A	PSF film 30 % filled	4.0	585	50°C)
(840 micron) Fe ₂ O ₄	PSF film 10 % filled	4.0	585	38°C	-	>371 °C
(44 micron) Fe ₃ 0 ₄	PSF film 30 % filled	4.0	585	210°C		
(44 micron)	PSF film					

Susceptor/Polymer Watrix

		11-0	VC-07	Ma-2Y	Zn/Co-2Y	Zn/Mg-2Y	
		SIT	(3400)	(260-280)	(255C)	(175C)	- 1
		4000	72012		Note 3	Note 3	Note 4
No	Workng			`			
Temp	du						
<u>u</u>	(note 1)	•					
360C	၁(×	×				
		×	×				
340C	၁င	×	×			•	
34	340C	×	×				
34	340C	×	×				
28	280-300		×				>
2	280-300		×		-		<
2	270-280			,			
2	220C			×	;	 	× >
5	200-210			×	×	< :	<>>
7	200-210			×	×	××	<>
7	200-210			×	×	< >	< ×
~	190-200			×		<	

Notes:

(1) "Working Temp" of Polymer is approx. 30C above melting temp.

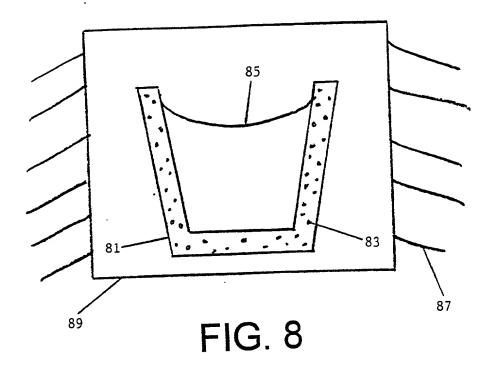
(2) Curie Temps of Zn/Mg and Zn/Co blends vary by concentration of Zn (3) Curie Temps of soft ferrite vary by choice of ferrite.

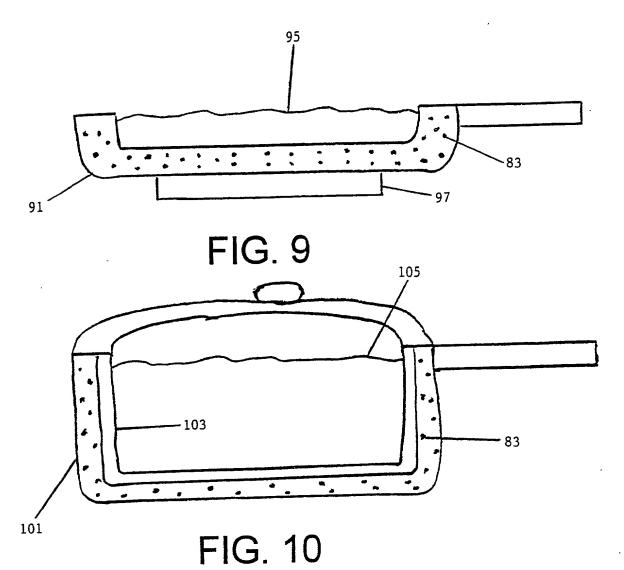
FIG. 6

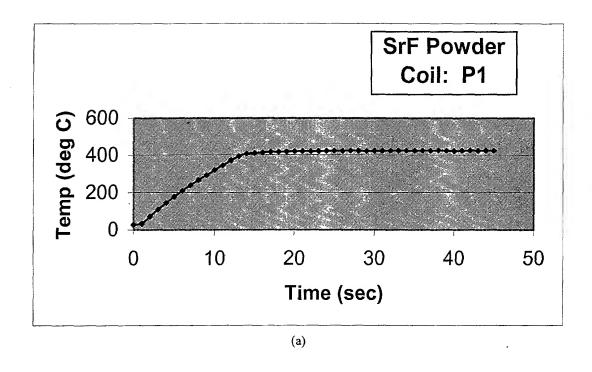
Process Variables

Processes Pretreatment Conditions SmartBond to Produce Extremely Rapid Heating Rates Processing: 2-10 MHz Parallel, Uniform Magnetic Field (PUMF) Application of PUMF Permits User to Take Advantage of Extremely Rapid Heating Rate Capability of Conditioned SmartBond

FIG. 7







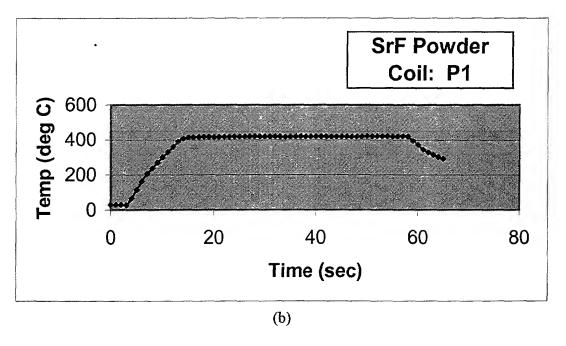
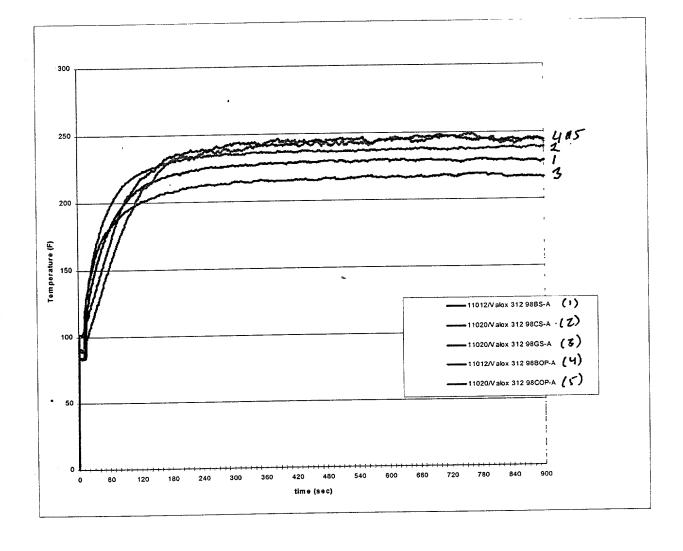


Figure 11



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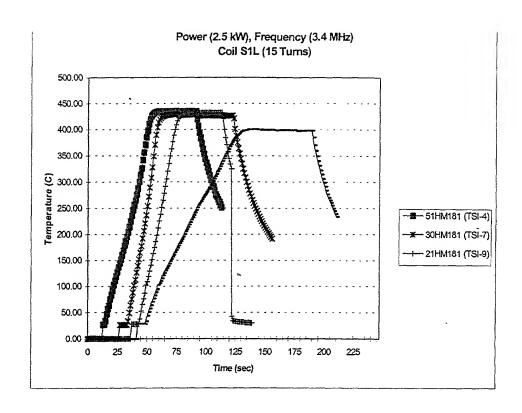


Figure 13

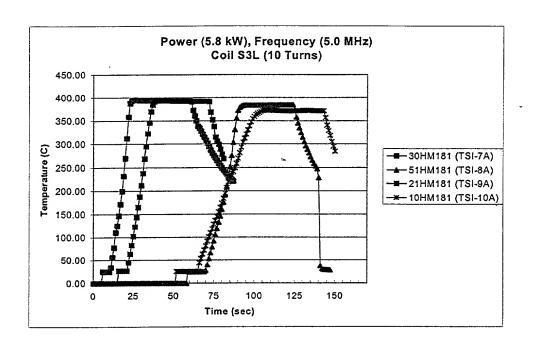


Figure 14



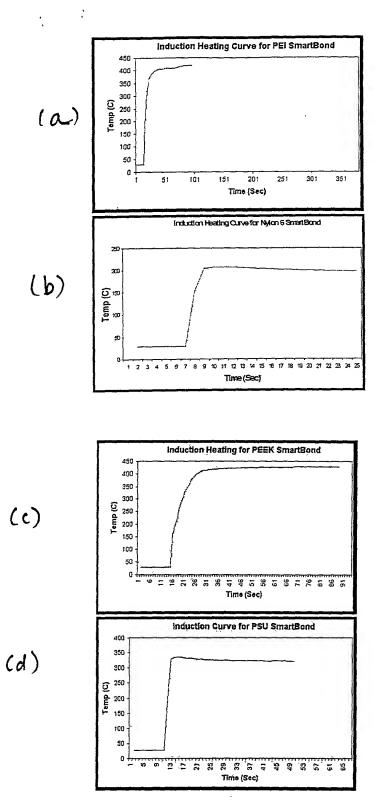


Figure 15

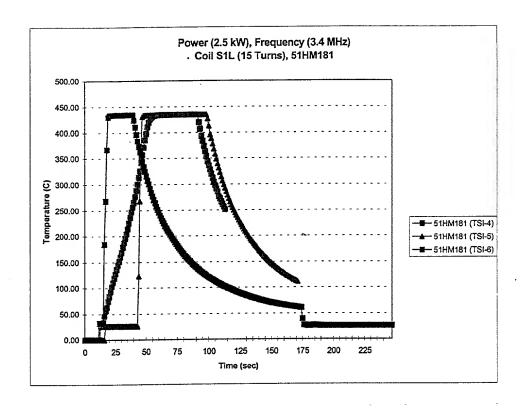
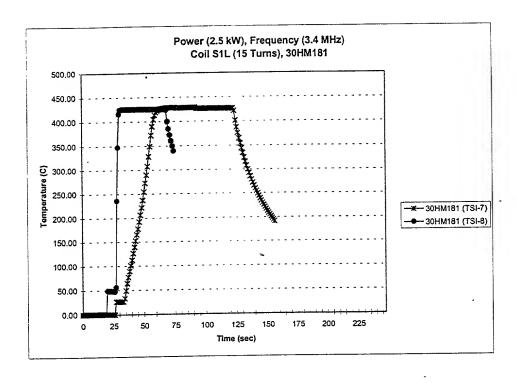


Figure 16



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Figure 17

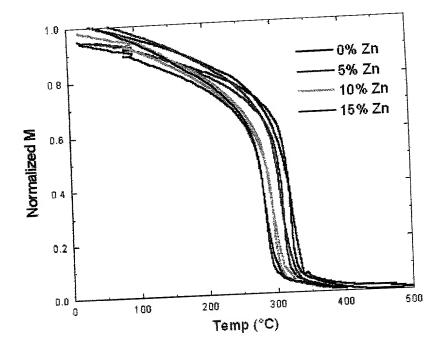
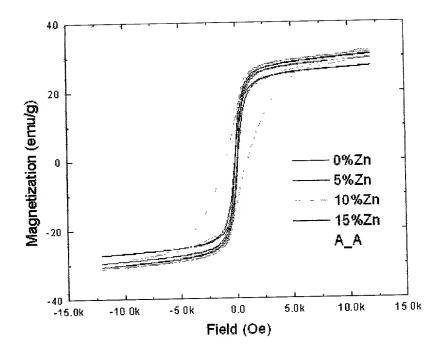
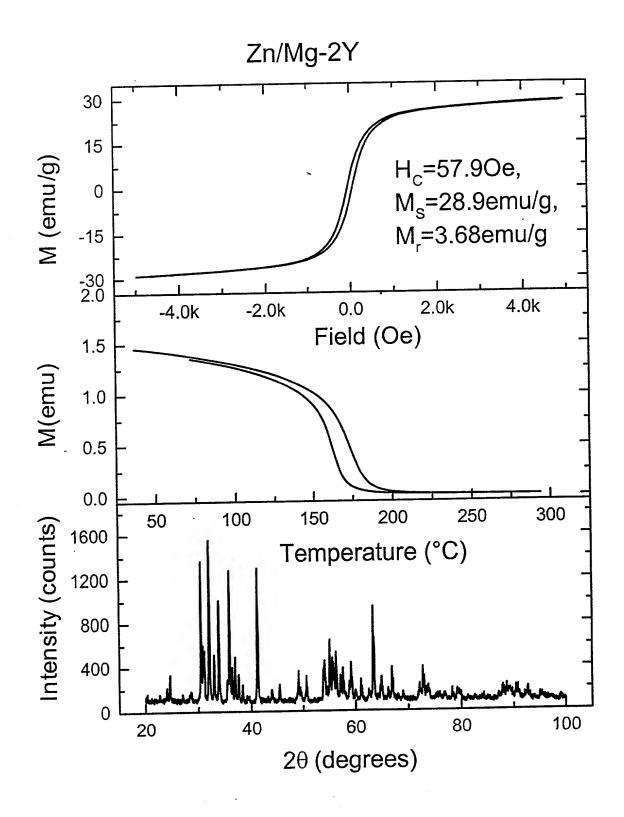


FIGURE 18



FICTIFF 19

Figure 20



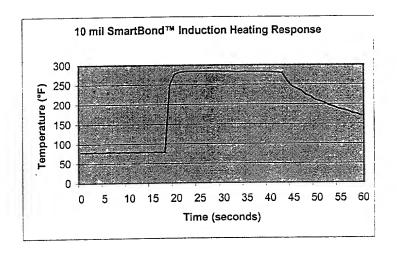


Figure 21